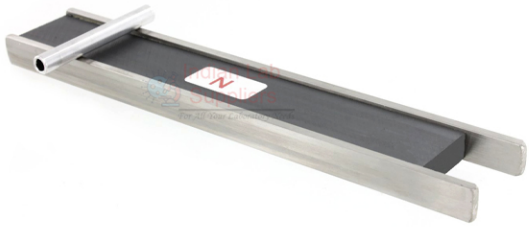

Product Code . ILS-EAM-11813

Electromagnetic Force Demonstrator

Description

An Aluminum pipe is placed between the rails and by applying a current using a hand-held generator, the pipe will move down the track depending on the direction of current applied.

The Electromagnetic Force Demonstrator is a dynamic way of illustrating the Lorentz Force and the interconnection of electrical current and magnetic fields.

The device consists of two metal rails fixed to a permanent magnet with its magnetic field directed upward.

The direction of the Aluminum pipe can easily be determined using the Right-Hand Rules (of Magnetism), reinforcing the interrelated concepts of Current, Magnetic fields and the Lorentz Force for your students.

Reversing the current direction results in the Aluminum pipe also reversing its movement on the track.

Students can also observe how an increase in current affects the speed of the pipe on the track.

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